UNITED STATES NAVAL OBSERVATORY

CIRCULAR NO. 12

U. S. Naval Observatory, Washington 25, D. C. February 13, 1950

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

SEPTEMBER - NOVEMBER, 1949

By Lucy T. Day

All measurements and spot counts were made at the Naval Observatory from plates secured either in Washington, or at Mt. Wilson. Difference in longitude is measured from the central meridian, positive toward the west; latitude is positive toward the north. Areas are corrected for foreshortening and expressed in millionths of the sun's hemisphere. For each date at the bottom of the columns headed: Mt. Wilson group number, difference in longitude, latitude, area of spot or group, and spot count are included respectively: number of groups, assumed longitude of the central meridian, assumed latitude of the center of the disk, total area of spots and groups, and total spot count. The date is expressed in Universal Time. The observatory at which the plate was secured and its quality are indicated directly below this date. (NO stands for U. S. Naval Observatory, MW for Mt. Wilson Observatory; and the symbols VG, G, F and P mean very good, good, fair and poor respectively.) Spots not assigned a number at Mt. Wilson are indicated by an asterisk. Corresponding data were published in the Monthly Weather Review from February 1927 to December 1947. Since December 31, 1947 they are published monthly in this series of circulars.

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude °	Heliographic: Latitude °	Distance from center of disk °	Area of spot or group	Spot count
Sept.						
1.655 NO-G	9983	−88	+18	88	97	1
	9981	−71	+13	71	194	1
	9981	−67	+12	67	145	3
	9978	−58	+ 6	58	12	1
	9978	−57	+ 8	57	121	1
	9978	−53	+ 9	53	12	2
	9978	−51	+ 9	51	485	1
	9982	−56	−20	61	61	5
	9977	−51	−17	57	12	1
	9977	−42	−12	45	73	1
	9980	−41	− 6	43	194	1
	9980	−39	− 6	42	61	8
	9972	− 1	+ 8	2	24	7
	9972	0	+10	3	121	2
	9972	+ 8	+ 7	8	97	1
	9976	+13	− 9	21	61	7
	9976	+17	− 9	23	97	15
	9976	+21	− 9	27	242	3
	9971	+17	+13	18	24	5
	(*)	+35	+ 9	35	12	4
	9968	+55	−20	60	48	1
	9968	+59	−23	63	291	12
	9966	+60	+17	60	145	1
	9965	+70	−11	73	533	7
	9965	+75	−15	78	12	1
	9964	+80	−13	82	194	1
	(14)	(5)	(+7)		3,368	93
2.638 NO-G	9984	−79	+24	80	145	2
	9983	−75	+18	76	145	1
	9983	−74	+19	75	48	1
	9983	−70	+18	71	48	1
	9981	−57	+13	57	73	1
	9981	−54	+12	54	145	8
	9978	−44	+ 7	44	121	4
	9978	−38	+ 8	38	436	1
	9982	−43	−21	51	97	5
	9982	−40	−20	48	97	4
	9977	−29	−13	35	73	1
	9980	−29	− 6	32	194	1
	9980	−24	− 7	28	109	8
	9985	−12	−11	22	12	2
	9972	+14	+ 8	15	97	14
	9972	+21	+ 6	21	48	6
	9976	+29	− 9	33	145	16
	9976	+35	− 9	38	242	2
	9968	+69	−19	71	24	1
	9968	+73	−23	77	194	6
	9966	+73	+17	74	145	1
	9965	+85	−17	86	242	2
	(13)	(352)	(+7)		2,880	88
3.666 NO-G	9987	−82	−14	83	145	1
	9987	−76	−13	78	291	1
	9990	−77	−22	80	97	1
	9984	−65	+24	66	61	1
	9983	−60	+18	60	194	1
	9983	−58	+19	58	73	3
	9983	−55	+17	55	6	1
	9981	−45	+13	45	61	1
	9981	−40	+12	40	97	13
	9981	−38	+ 8	38	12	2
	9978	−30	+ 9	30	97	2
	9978	−24	+ 9	24	388	1
	9982	−30	−20	40	61	3
	9982	−26	−19	36	121	13
	9977	−16	−13	27	61	1
	9980	−16	− 6	21	145	4
	9980	−10	− 6	17	97	10
	9986	−11	−10	20	48	1
	9972	+27	+ 9	27	24	8
	9972	+35	+ 6	35	24	3
	9976	+41	− 9	44	97	4
	9976	+49	− 9	51	12	3
	9976	+50	− 9	52	218	1
	(12)	(338)	(+7)		2,430	79
4.627 NO-F	9987	−67	−17	70	242	7
	9987	−61	−17	66	388	1
	9990	−63	−24	69	48	2
	9984	−51	+25	53	48	1
	9983	−48	+19	48	194	1
	9983	−45	+19	46	48	4
	9981	−29	+14	30	121	6
	9989	−25	+ 9	25	48	3
	9982	−19	−20	33	48	1
	9982	−12	−18	28	73	6
	9978	−17	+10	18	61	2
	9978	−10	+10	11	436	1
	9978	−10	+ 7	10	12	1
	9977	− 5	−11	19	36	6
	9977	− 2	−11	18	36	1
	9980	− 2	− 3	10	48	1
	9980	+ 4	− 4	12	73	5
	9986	+ 4	− 9	7	24	1
	9972	+40	+ 9	40	12	4
	9976	+59	− 9	61	24	6
	9976	+64	− 9	66	194	1
	9988	+78	+ 9	78	12	4
	(14)	(325)	(+7)		2,226	65
5.640 NO-G	9994	−80	+ 7	80	48	1
	9994	−75	+ 6	75	24	2
	9993	−78	−11	79	12	2
	9987	−58	−17	62	48	3
	9987	−57	−19	61	73	1
	9987	−54	−17	59	145	2
	9987	−50	−17	55	145	2
	9987	−47	−16	52	436	1
	9990	−51	−25	59	24	5
	9992	−39	+26	42	24	7
	9984	−38	+24	41	48	1
	9983	−35	+18	37	194	1
	9983	−30	+19	32	24	3

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Sept.		°	°	°		
	9981	−15	+13	17	121	11
	9989	−12	+10	13	73	6
	9989	− 7	+ 9	8	6	2
	9982	− 6	−20	28	73	6
	9982	+ 2	−20	27	121	20
	9978	− 3	+ 9	3	48	6
	9978	+ 2	+ 9	2	388	1
	9978	+ 2	+ 6	2	6	2
	9977	+10	−12	21	36	5
	9991	+10	− 9	18	61	9
	9980	+13	− 4	17	48	2
	9976	+78	− 7	79	194	1
	(15)	(312)	(+7)		2,420	102
6.642	9994	−66	+ 8	66	24	2
NO-G	9994	−62	+ 7	62	48	1
	9994	−60	+ 6	60	48	1
	9993	−62	− 9	64	24	1
	9987	−43	−19	50	73	1
	9987	−41	−17	47	242	5
	9987	−37	−16	43	24	2
	9987	−33	−14	39	145	3
	9987	−32	−13	40	412	2
	9992	−26	+26	31	48	3
	9983	−21	+18	23	170	1
	9981	− 2	+15	8	24	5
	9989	+ 1	+10	3	97	7
	9982	+ 9	−20	28	97	14
	9982	+16	−19	30	97	9
	9978	+10	+ 9	10	48	3
	9978	+16	+ 9	17	339	5
	9977	+21	−12	29	24	8
	9991	+24	− 9	29	48	2
	9980	+25	− 4	28	24	2
	(12)	(299)	(+7)		2,056	77
7.595	9995	−79	+13	79	36	6
MW-VG	9994	−52	+ 8	52	48	12
	9994	−47	+ 7	47	97	6
	9993	−51	− 9	53	6	2
	9987	−29	−17	37	485	20
	9987	−22	−15	31	24	7
	9987	−19	−13	28	485	1
	9992	−12	+28	25	12	3
	9983	− 7	+19	13	145	1
	9983	− 5	+22	15	12	2
	9983	− 3	+17	10	24	13
	9981	+10	+15	13	24	8
	9989	+10	+ 9	11	24	12
	9989	+17	+11	18	48	8
	9989	+19	+13	21	12	5
	9982	+22	−19	33	121	12
	9982	+29	−18	38	73	16
	9978	+23	+10	23	24	4
	9978	+29	+10	29	242	1
	9977	+33	−12	38	73	30

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Sept.		°	°	°		
	9991	+38	− 8	42	109	13
	9980	+38	− 4	41	16	2
	(13)	(286)	(+7)		2,140	184
8.680	9995	−67	+11	67	36	5
NO-G	9995	−62	+11	62	48	4
	9996	−60	−27	67	48	2
	9994	−38	+ 8	38	48	6
	9994	−34	+ 7	34	97	8
	9987	−15	−17	29	485	15
	9987	−10	−16	25	6	1
	9987	− 4	−14	22	533	2
	9992	+ 1	+26	19	12	4
	9983	+ 5	+18	13	145	1
	9983	+ 7	+19	14	16	7
	9981	+22	+14	23	12	5
	9989	+31	+10	31	24	3
	9982	+35	−19	43	145	11
	9982	+43	−18	50	24	5
	9978	+39	+10	39	12	5
	9978	+42	+ 9	42	291	1
	9977	+46	−12	50	48	4
	9991	+53	− 8	55	73	3
	(12)	(272)	(+7)		2,103	92
9.647	9997	−74	+13	74	145	2
NO-G	9995	−49	+11	49	48	1
	9996	−48	−27	57	48	1
	9996	−45	−26	55	73	2
	9994	−17	+ 6	17	121	5
	9987	− 4	−18	26	194	5
	9987	− 2	−16	25	242	4
	9987	+ 5	−15	23	16	2
	9987	+ 9	−14	23	533	1
	9992	+15	+26	25	6	2
	9983	+19	+18	21	145	1
	9989	+45	+10	45	24	1
	9982	+49	−19	53	145	7
	9982	+52	−19	58	170	3
	9982	+56	−18	61	12	1
	9978	+56	+10	56	194	3
	9977	+59	−13	62	24	6
	9991	+66	− 8	68	121	3
	(12)	(259)	(+7)		2,261	50
10.593	10001	−80	−13	81	339	1
MW-VG	9997	−67	+14	67	48	6
	9997	−60	+13	60	145	1
	9995	−37	+12	37	36	7
	9996	−37	−27	50	36	9
	9996	−34	−26	47	16	3
	9996	−31	−26	45	97	1
	9994	−11	+ 7	11	24	6
	9994	− 5	+ 7	5	97	12
	9999	−11	− 9	20	12	2
	9987	+10	−16	25	291	39

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count
Sept.		°	°	°		
	9987	+19	−13	28	97	25
	9987	+21	−12	29	533	1
	9987	+23	−11	30	24	4
	9998	+10	+19	15	6	2
	9983	+29	+18	31	12	4
	9983	+31	+18	33	61	1
	9989	+59	+10	59	12	1
	9982	+64	−20	69	170	9
	9982	+70	−18	73	48	1
	9978	+67	+10	67	194	1
	9991	+80	− 8	80	121	1
	(13)	(246)	(+7)		2,419	137
11.669	10001	−80	−13	81	24	3
N O-G	10001	−75	−13	77	485	10
	10001	−65	−13	68	242	3
	10002	−78	+18	78	388	2
	9997	−53	+15	53	24	1
	9997	−47	+13	47	61	1
	9997	−44	+14	46	194	1
	9995	−23	+11	24	24	1
	9996	−23	−27	41	48	7
	9996	−17	−26	36	145	2
	10000	−11	+ 9	12	24	2
	9994	+ 3	+ 5	3	97	7
	9994	+ 9	+ 5	10	97	5
	9987	+23	−17	33	121	9
	9987	+31	−15	38	436	7
	9987	+37	−15	42	630	1
	10003	+28	+18	30	61	7
	9983	+44	+18	45	73	1
	9982	+75	−20	78	291	1
	9982	+78	−19	80	48	1
	9982	+86	−18	86	97	2
	9978	+85	+ 9	85	194	2
	(12)	(232)	(+7)		3,804	76
12.649	10002	−70	+15	71	48	1
N O-G	10002	−66	+16	66	97	1
	10002	−62	+16	62	339	1
	10001	−65	+17	65	194	3
	10001	−61	−14	64	970	8
	10001	−51	−13	55	242	2
	9997	−38	+12	38	24	3
	9997	−34	+13	35	61	2
	9997	−31	+14	32	194	1
	10005	−15	+13	16	6	1
	9996	−11	−30	39	12	2
	9996	− 3	−25	33	194	1
	10000	+ 5	+ 8	5	24	7
	9994	+15	+ 6	15	24	6
	9994	+25	+ 5	25	48	1
	10003	+39	+18	40	36	4
	10003	+43	+19	44	48	1
	9987	+40	−17	46	533	15
	9987	+49	−16	53	679	1

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count
Sept.		°	°	°		
	9983	+57	+18	57	48	1
	(10)	(219)	(+7)		3,821	62
13.697	10006	−73	+10	73	121	1
N O-G	10002	−50	+16	50	485	5
	10001	−47	−15	52	1,406	8
	10001	−37	−13	42	194	2
	9997	−23	+13	24	24	6
	9997	−19	+13	20	48	1
	9997	−18	+14	19	194	1
	10007	−12	+13	13	24	20
	9996	+12	−25	35	194	1
	10000	+14	+ 8	15	12	2
	10000	+21	+ 8	21	24	4
	9994	+27	+ 6	27	24	9
	9994	+39	+ 6	39	48	1
	9987	+50	−19	55	170	3
	9987	+58	−15	61	97	1
	9987	+64	−14	68	824	3
	10003	+57	+20	57	24	4
	9983	+70	+20	71	24	1
	(11)	(206)	(+7)		3,937	73
14,665	10009	−86	−14	87	242	1
N O-G	10006	−61	+10	61	97	1
	10002	−42	+17	43	48	10
	10002	−37	+16	38	291	5
	10001	−35	−15	41	1,212	20
	10001	−27	−14	33	48	1
	10001	−24	−14	32	109	1
	9997	−11	+13	13	36	6
	9997	− 6	+14	10	145	1
	10007	− 3	+ 7	3	12	3
	10007	+ 3	+12	6	12	5
	9996	+25	−26	41	194	1
	9994	+51	+ 6	51	48	1
	9987	+63	−18	67	121	2
	9987	+69	−15	71	145	2
	9987	+75	−13	76	776	2
	10003	+70	+20	71	12	1
	(10)	(193)	(+7)		3,548	63
15.639	10009	−80	−16	81	145	1
N O-G	10009	−71	−15	73	436	1
	10006	−47	+10	47	97	1
	10002	−23	+16	24	339	3
	10001	−21	−15	30	1,212	21
	10001	−13	−14	25	97	10
	10001	−11	−14	25	145	1
	9997	+ 3	+13	7	97	3
	9997	+ 7	+14	11	145	1
	10007	+14	+11	15	12	1
	9996	+38	−26	50	194	1
	9994	+65	+ 6	65	24	1
	(8)	(180)	(+7)		2,943	45

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count
Sept.		°	°	°		
16.636	10013	−84	+13	84	194	1
N O-G	10009	−66	−16	68	194	2
	10009	−56	−15	60	388	1
	10006	−34	+10	34	97	1
	10002	−17	+16	19	24	8
	10002	−11	+16	14	291	1
	10001	− 7	−15	23	1,261	23
	10001	+ 1	−14	21	97	18
	10001	+ 2	−13	20	145	1
	9997	+17	+13	19	12	6
	9997	+20	+14	22	121	2
	9996	+50	−26	58	194	1
	9994	+78	+ 6	78	24	2
	(8)	(167)	(+7)		3,042	67
17.629	10014	−84	−17	84	97	2
N O-G	10014	−65	−21	70	6	1
	10013	−70	+13	70	194	1
	10012	−63	+29	64	12	1
	10009	−52	−16	56	170	2
	10009	−46	−15	51	97	14
	10009	−41	−13	46	315	1
	10011	−48	+ 6	48	48	11
	10006	−20	+10	20	73	1
	10002	− 7	+16	12	24	17
	10002	+ 2	+14	7	267	8
	10001	+ 2	−16	23	97	5
	10001	+ 6	−16	24	1,212	13
	10001	+12	−15	25	61	1
	10001	+ 3	−14	21	48	20
	10001	+16	−15	27	97	1
	9997	+32	+14	33	48	8
	9996	+62	−26	69	97	1
	(10)	(154)	(+7)		2,963	108
18.701	10014	−69	−17	70	73	4
N O-G	10014	−64	−18	68	6	1
	10014	−57	−18	61	6	1
	10013	−56	+13	56	145	1
	10012	−50	+27	52	12	1
	10009	−38	−17	45	194	5
	10009	−32	−17	42	48	10
	10009	−27	−14	34	242	1
	10011	−36	+ 6	36	48	14
	10011	−31	+ 5	31	97	1
	10015	−11	+17	16	36	6
	10006	− 7	+ 8	7	73	1
	10002	+17	+15	20	121	3
	10001	+17	−18	30	97	7
	10001	+20	−17	32	921	15
	10001	+25	−16	33	97	8
	10001	+29	−15	36	73	1
	9997	+46	+15	46	12	1
	9996	+76	−25	80	97	2
	(11)	(139)	(+7)		2,398	83
Sept.		°	°	°		
19.658	10018	−78	+ 6	78	194	1
N O-G	10014	−53	−16	58	24	2
	10013	−42	+12	42	61	2
	10012	−36	+28	40	24	1
	10009	−24	−17	33	145	4
	10009	−17	−15	28	6	2
	10009	−13	−14	25	194	1
	10011	−22	+ 7	22	24	4
	10011	−18	+ 5	18	242	2
	10015	+ 3	+17	11	36	3
	10016	+ 4	− 7	16	16	2
	10006	+ 7	+ 8	8	73	1
	10002	+29	+16	30	48	9
	10002	+31	+15	32	61	2
	10001	+29	−18	38	48	1
	10001	+34	−17	41	1,018	12
	10001	+40	−16	45	145	6
	10001	+43	−15	48	12	1
	(11)	(127)	(+7)		2,371	56
20.644	10019	−82	− 8	82	291	1
N O-G	10018	−69	+ 8	69	24	6
	10018	−65	+ 7	65	194	1
	10014	−41	−16	46	24	2
	10013	−28	+12	28	48	1
	10012	−22	+28	30	12	1
	10009	−11	−16	26	145	4
	10009	0	−13	20	242	1
	10011	− 6	+ 7	6	121	4
	10016	+ 9	−11	21	24	4
	10016	+11	−11	21	36	3
	10015	+18	+18	22	24	5
	10006	+21	+ 9	21	61	1
	10002	+43	+15	43	36	4
	10001	+43	−18	49	97	4
	10001	+46	−17	51	921	1
	10001	+48	−13	51	48	6
	10001	+53	−12	56	145	5
	(12)	(114)	(+7)		2,493	54
21.635	10019	−70	−11	72	48	1
N O-F	10019	−69	− 8	70	291	1
	10018	−56	+ 8	56	48	5
	10018	−51	+ 7	51	194	1
	10014	−27	−16	36	24	2
	10013	−15	+12	15	48	1
	10009	+ 3	−16	23	145	4
	10009	+13	−12	23	242	1
	10011	+ 3	+ 7	3	61	4
	10011	+ 8	+ 7	8	12	1
	10016	+23	− 9	27	12	1
	10016	+25	−11	31	145	10
	10006	+34	+ 9	34	61	1
	10002	+57	+16	57	24	1
	10001	+60	−16	62	921	1
	(10)	(101)	(+7)		2,276	35

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Sept.		°	°	°		
22.653	10020	−61	−29	69	48	3
NO-G	10019	−56	−11	58	97	3
	10019	−55	− 9	57	436	4
	10018	−43	+ 7	43	73	4
	10018	−37	+ 7	37	170	3
	10014	−15	−17	28	242	12
	10013	− 3	+12	5	48	1
	10009	+15	−17	28	97	4
	10009	+27	−12	32	291	1
	10016	+39	−11	42	145	15
	10006	+48	+ 8	48	61	1
	10002	+70	+16	70	12	1
	10001	+74	−16	76	727	3
	(10)	(87)	(+7)		2,447	55
23.642	10020	−51	−29	61	97	1
NO-G	10020	−47	−27	57	36	4
	10020	−45	−28	55	6	1
	10019	−40	−10	43	73	15
	10019	−40	− 8	42	291	7
	10019	−38	− 7	41	194	4
	10018	−29	+ 8	29	24	15
	10018	−23	+ 7	23	109	5
	10014	− 2	−18	25	73	4
	10014	− 2	−15	23	61	1
	10014	+ 2	−15	23	73	1
	10014	+ 2	−17	24	24	3
	10013	+ 9	+15	13	12	6
	10013	+12	+12	13	24	2
	10013	+13	+10	13	12	5
	10009	+41	−12	44	291	1
	10016	+50	−10	53	97	10
	10006	+60	+10	60	48	1
	10001	+88	−16	89	97	1
	(9)	(74)	(+7)		1,642	87
24.598	10020	−39	−29	52	48	2
MW-F	10020	−34	−28	48	48	1
	10019	−29	− 7	32	97	14
	10019	−27	− 8	32	170	2
	10019	−26	− 6	30	121	11
	10019	−24	− 8	28	145	9
	10018	−16	+ 8	16	48	7
	10018	−10	+ 8	10	61	11
	10014	+11	−19	29	48	3
	10014	+12	−16	26	73	10
	10014	+15	−17	28	145	3
	10013	+25	+13	26	24	1
	10009	+56	−12	58	315	1
	10016	+64	− 9	67	73	3
	10016	+72	− 9	73	48	1
	10006	+72	+10	72	24	1
	(8)	(62)	(+7)		1,488	80
25.726	10020	−25	−30	44	12	1
NO-F	10020	−20	−29	41	12	1
	10020	−12	−29	38	24	1
	10019	−13	− 8	21	339	6
	10019	− 9	− 8	18	291	3
	10018	− 1	+ 9	2	48	1
	10018	+ 4	+ 9	4	61	5
	10014	+28	−18	38	48	1
	10014	+29	−17	37	291	12
	10013	+37	+12	37	24	2
	10021	+55	+11	55	24	3
	10021	+58	+11	58	48	1
	10009	+70	−13	72	339	1
	(7)	(47)	(+7)		1,561	38
26.652	10022	−55	+13	55	24	1
NO-G	10020	−13	−30	40	12	2
	10020	− 8	−29	38	6	2
	10019	− 4	− 9	17	73	5
	10019	− 1	− 8	15	194	1
	10019	+ 1	− 8	15	73	10
	10019	+ 4	− 7	15	194	1
	10018	+10	+ 8	10	73	1
	10018	+14	+ 8	14	48	1
	10014	+38	−15	43	24	6
	10014	+39	−17	44	36	1
	10014	+43	−16	48	170	2
	10021	+70	+10	70	145	6
	10009	+84	−13	85	291	1
	(7)	(34)	(+7)		1,363	40
27.619	10022	−42	+12	42	36	3
MW-F	10019	+13	− 7	20	194	4
	10019	+17	− 6	22	73	16
	10019	+18	− 7	23	145	1
	10018	+22	+ 8	22	48	7
	10014	+49	−17	53	12	6
	10014	+57	−17	61	145	4
	10023	+71	+ 9	71	24	1
	10021	+80	+10	80	48	1
	10021	+86	+12	86	145	2
	(6)	(22)	(+7)		870	45
28.663	10024	−29	−11	34	61	6
NO-F	10019	+23	− 9	28	24	6
	10019	+28	− 8	32	194	9
	10019	+33	− 8	37	218	12
	10014	+72	−17	76	194	5
	(3)	(8)	(+7)		691	38
29.604	10024	−17	−10	25	24	4
MW-F	10024	−14	− 9	22	36	1
	10019	+39	− 7	42	97	8
	10019	+43	− 5	45	48	6
	10019	+45	− 7	47	48	1
	10019	+47	− 6	49	48	3
	(2)	(356)	(+7)		301	23

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Heliographic Distance from center of disk	Area of spot or group	Spot count
Sept.		°	°	°		
30.660	10025	−79	−13	80	291	2
NO-G	10025	−72	−15	75	48	4
	(*)	− 4	+13	8	16	10
	10024	+ 1	− 9	17	36	1
	10019	+52	− 8	54	16	8
	10019	+55	− 7	57	73	4
	10019	+58	− 5	60	48	3
	10019	+59	− 8	61	48	3
	(4)	(342)	(+7)		576	35

Mean daily area for 30 days = 2,295
Mean 10 g+s for 30 days = 170.7

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Heliographic Distance from center of disk	Area of spot or group	Spot count
Oct.						
1.629	10027	−80	+ 9	80	97	4
NO-G	10027	−78	+ 8	78	776	1
	10026	−65	+17	65	24	5
	10025	−63	−16	68	291	1
	10025	−61	−16	65	61	7
	10025	−57	−15	62	36	3
	10028	−48	−13	52	73	7
	10028	−44	−13	48	97	10
	10024	+15	−10	22	24	1
	10024	+17	−11	25	12	3
	10019	+70	− 6	71	145	2
	10019	+70	− 8	71	48	5
	(6)	(329)	(+7)		1,684	49
2.760	10027	−66	+ 7	66	97	6
NO-VG	10027	−63	+ 8	63	194	5
	10027	−61	+10	61	73	8
	10027	−60	+ 7	60	824	1
	10027	−57	+ 8	57	73	1
	10030	−60	+23	60	24	1
	10030	−55	+21	55	24	3
	10026	−51	+17	51	48	4
	10026	−48	+17	48	48	1
	10025	−50	−18	55	48	1
	10025	−48	−17	53	339	5
	10025	−40	−17	47	61	4
	10031	−36	+16	37	24	5
	10028	−30	−13	36	48	10
	10028	−25	−11	31	194	1
	(*)	−16	+21	22	6	1
	10029	−10	−30	38	24	4
	10029	− 7	−29	37	16	7
	10032	+ 4	+10	4	12	6
	10024	+27	− 7	31	6	1
	10024	+30	− 9	34	24	6
	10019	+84	− 7	84	97	3
	(11)	(314)	(+7)		2,304	84
3.649	10035	−64	+25	65	12	2
NO-G	10027	−53	+ 7	53	73	1
	10027	−51	+ 7	51	170	3
	10027	−49	+10	49	121	8
	10027	−48	+ 7	48	824	1
	10027	−45	+ 8	45	145	3
	10030	−47	+23	49	121	8
	10030	−42	+21	43	73	7
	10030	−40	+18	41	24	3
	10026	−36	+17	37	36	3
	10025	−36	−17	43	339	7
	10025	−29	−16	37	121	9
	10028	−20	−13	28	24	3
	10028	−13	−11	23	194	1
	10029	+ 3	−30	38	61	7
	10034	+19	+11	20	6	3
	10033	+41	+17	42	24	4
	(9)	(302)	(+7)		2,368	73
4.635	10035	−51	+25	53	12	3
NO-VG	10027	−43	+ 8	43	48	1
	10027	−42	+ 7	42	48	1
	10027	−41	+ 8	41	73	1
	10027	−37	+ 9	37	291	24
	10027	−35	+ 7	35	824	4
	10027	−31	+12	31	145	10
	10027	−30	+10	30	73	2
	10030	−33	+23	36	121	15
	10030	−29	+21	31	145	11
	10026	−22	+17	24	24	4
	10025	−22	−17	32	388	5
	10025	−17	−17	30	97	2
	10025	−15	−15	27	194	12
	10038	−10	+ 1	12	48	6
	10028	− 6	−13	22	6	1
	10028	+ 1	−11	18	194	1
	10040	+ 8	+ 6	8	16	3
	10029	+15	−30	40	61	6
	10029	+20	−30	42	48	4
	10034	+32	+10	32	6	1
	10039	+41	+23	43	12	1
	10037	+55	− 9	57	24	4
	10033	+55	+16	55	12	2
	(13)	(289)	(+7)		2,910	124
5.683	10027	−29	+ 8	29	73	7
NO-G	10027	−25	+ 9	25	242	24
	10027	−23	+ 6	23	388	6
	10027	−21	+ 7	21	630	1
	10027	−20	+12	21	73	4
	10027	−17	+11	18	242	18
	10027	− 4	+ 8	4	73	1
	10030	−20	+23	26	97	3
	10030	−17	+22	23	73	28
	10030	−11	+21	18	194	1
	10025	− 9	−17	26	339	14
	10025	− 4	−17	25	121	12
	10025	− 3	−13	20	97	3
	10025	− 1	−15	21	194	11
	10038	+ 3	+ 2	5	48	8
	10038	+ 6	+ 1	7	73	2

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Oct.		°	°	°		
	10028	+ 9	−12	20	12	7
	10028	+16	−10	23	194	1
	10029	+28	−31	46	24	2
	10029	+32	−31	49	16	1
	10034	+47	+11	47	6	1
	10039	+53	+24	55	48	9
	10037	+68	−11	70	48	6
	10033	+71	+17	71	12	3
	(10)	(275)	(+6)		3,317	173
6.673	10027	−13	+ 7	13	291	23
N O-G	10027	− 9	+ 6	9	291	1
	10027	− 8	+ 7	8	533	1
	10027	− 5	+10	5	533	30
	10027	+ 1	+ 8	2	61	1
	10030	− 9	+23	17	121	1
	10030	− 4	+22	16	97	13
	10030	+ 1	+21	15	291	1
	10025	+ 3	−17	23	218	10
	10025	+11	−15	25	291	23
	10038	+18	+ 1	19	97	9
	10038	+22	+ 1	23	61	1
	10028	+29	−10	32	194	1
	10029	+40	−32	55	24	3
	10029	+45	−31	58	36	1
	10039	+67	+24	67	73	6
	10037	+80	−11	80	97	1
	(8)	(262)	(+6)		3,309	126
7.682	10041	− 9	+22	18	121	5
N O-F	10027	0	+ 7	1	97	7
	10027	+ 3	+ 9	3	97	4
	10027	+ 4	+ 6	4	461	3
	10027	+ 6	+ 7	6	436	1
	10027	+ 8	+10	9	97	8
	10027	+11	+ 9	12	242	6
	10027	+13	+ 8	14	61	1
	10030	+ 7	+23	19	145	8
	10030	+13	+20	20	533	1
	10025	+17	−17	29	291	3
	10025	+22	−17	32	97	8
	10025	+28	−15	35	267	4
	10038	+29	+ 1	30	121	4
	10038	+38	+ 1	39	73	2
	10028	+42	−10	45	121	1
	(6)	(249)	(+6)		3,260	66
8.638	10045	−75	−13	78	36	2
MW-F	10045	−67	−13	70	24	1
	10043	−65	+20	66	339	8
	10043	−59	+19	59	12	1
	10044	−45	−35	60	48	1
	10044	−39	−35	55	12	1
	10042	−35	+17	37	12	1
	10041	+ 5	+22	17	97	7
	10041	+10	+22	18	97	5
	10027	+13	+ 7	13	97	11

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Oct.		°	°	°		
	10027	+17	+ 9	17	145	7
	10027	+19	+ 8	19	727	2
	10027	+23	+11	24	194	6
	10027	+24	+ 9	25	48	1
	10027	+27	+ 8	27	145	9
	10027	+30	+ 7	30	48	1
	10030	+20	+23	26	194	6
	10030	+28	+21	32	582	3
	10025	+31	−17	38	339	2
	10025	+40	−17	46	291	11
	10038	+43	+ 1	44	73	3
	10038	+51	+ 1	52	36	1
	10028	+58	−10	60	97	1
	(10)	(236)	(+6)		3,693	91
9.684	10045	−58	−13	61	24	7
N O-G	10045	−52	−13	56	12	1
	10043	−50	+20	51	485	15
	10046	−48	−19	53	12	3
	10044	−30	−35	51	73	1
	10044	−27	−35	49	12	6
	(*)	+ 1	+20	14	12	4
	10041	+19	+23	24	194	1
	10041	+23	+22	28	170	5
	10027	+27	+ 8	27	97	8
	10027	+31	+ 8	31	533	1
	10027	+35	+12	35	194	15
	10027	+40	+ 9	40	61	1
	10027	+43	+ 7	43	36	2
	10030	+30	+26	35	12	4
	10030	+33	+23	37	97	9
	10030	+39	+22	41	12	6
	10030	+41	+21	42	388	10
	10025	+43	−14	48	291	2
	10025	+52	−14	56	194	2
	10038	+56	+ 2	56	48	1
	10038	+64	+ 2	64	24	1
	10028	+70	−10	73	97	1
	(11)	(223)	(+6)		3,078	106
10.646	10048	−85	−11	85	24	1
N O-G	10045	−48	−13	52	73	6
	10045	−43	−12	47	97	4
	10043	−39	+18	41	194	12
	10043	−37	+21	40	315	2
	10044	−20	−35	45	73	1
	10041	+27	+24	32	48	1
	10041	+31	+23	35	170	6
	10041	+37	+22	40	145	4
	10027	+41	+ 9	41	12	4
	10027	+45	+ 8	45	582	1
	10027	+50	+11	50	73	10
	10027	+54	+ 9	54	48	1
	10027	+55	+ 8	55	24	7
	10030	+43	+24	45	12	3
	10030	+45	+24	47	12	1
	10030	+54	+21	55	194	6

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Oct.		°	°	°		
	10030	+56	+20	58	218	1
	10025	+57	−16	61	194	1
	10025	+59	−14	62	121	1
	10025	+67	−15	70	218	1
	10038	+75	+ 3	75	24	1
	(9)	(210)	(+6)		2,871	75
11.667 NO-G	10049	−80	+14	80	24	5
	10049	−78	+15	78	291	1
	10050	−77	−13	79	6	1
	10048	−69	−12	71	170	2
	10047	−69	+23	69	73	5
	10047	−67	+20	68	24	8
	10051	−35	−18	43	12	2
	10045	−34	−12	38	97	5
	10045	−29	−12	33	97	3
	10043	−26	+18	29	194	19
	10043	−24	+20	27	291	16
	10043	−19	+17	22	48	9
	10044	− 7	−36	42	61	3
	10041	+40	+23	42	48	3
	10041	+45	+22	47	145	6
	10041	+49	+22	51	24	4
	10041	+50	+23	52	61	1
	10027	+55	+ 9	55	48	5
	10027	+58	+ 7	58	582	2
	10027	+63	+ 7	63	48	6
	10027	+69	+ 9	69	97	1
	10030	+68	+20	68	388	2
	10025	+69	−17	72	97	1
	10025	+70	−15	74	291	1
	10025	+85	−15	85	145	1
	(12)	(196)	(+6)		3,362	112
12.633 NO-G	10054	−69	−25	73	73	1
	10049	−68	+14	68	24	6
	10049	−61	+14	61	388	1
	10049	−61	+16	61	6	1
	10050	−63	−13	66	48	1
	10048	−56	−12	60	97	2
	10047	−56	+23	57	48	3
	10047	−55	+20	57	145	9
	10051	−22	−18	32	36	2
	10045	−17	−11	23	291	11
	10043	−12	+18	18	194	11
	10043	−10	+21	18	291	21
	10043	− 5	+18	12	12	1
	10044	+ 5	−36	43	12	1
	10041	+52	+24	55	24	1
	10041	+60	+22	61	194	10
	10041	+65	+24	66	73	5
	10027	+71	+ 8	71	533	2
	10052	+77	+17	77	48	2
	10030	+80	+20	80	242	1
	10025	+85	−15	85	145	2
	(14)	(184)	(+6)		2,924	94

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Oct.		°	°	°		
13.599	10054	−58	−25	65	48	1
MW-VG	10049	−56	+15	57	36	20
	10049	−48	+15	49	339	1
	10049	−48	+18	49	12	5
	10050	−51	−11	54	12	2
	10048	−42	−11	46	61	18
	10047	−42	+23	44	61	22
	10047	−39	+21	41	194	8
	10047	−36	+22	38	12	3
	10051	− 8	−18	25	36	14
	10045	− 8	−11	19	121	24
	10045	− 4	−10	17	24	10
	10045	− 1	−10	16	97	1
	10043	0	+19	13	242	29
	10043	+ 4	+21	16	194	1
	10043	+18	+19	22	12	5
	10053	+ 7	−17	25	12	5
	10044	+16	−35	45	12	1
	10041	+75	+22	75	48	10
	10041	+79	+24	79	12	4
	10027	+85	+ 7	85	533	1
	10052	+88	+18	88	145	1
	(13)	(171)	(+6)		2,263	186
14.640	10055	−58	− 6	60	24	3
MW-F	10054	−44	−24	53	24	1
	10049	−40	+16	41	145	15
	10049	−36	+17	38	48	11
	10049	−34	+15	36	388	1
	10050	−38	−12	43	24	6
	10048	−29	−11	33	36	4
	10047	−28	+24	32	36	20
	10047	−25	+21	29	194	6
	10047	−22	+23	28	12	5
	10047	−17	+18	21	6	2
	10051	+ 2	−18	25	16	10
	10045	+ 7	−13	21	97	14
	10045	+12	−10	20	121	1
	10043	+14	+22	21	61	15
	10043	+18	+23	25	97	10
	10053	+21	−18	32	73	7
	10044	+30	−35	50	12	1
	(*)	+61	+ 4	61	24	1
	(12)	(157)	(+6)		1,438	133
15.725	10055	−44	− 6	46	12	1
NO-VG	10055	−42	− 6	44	12	3
	10054	−30	−24	42	12	1
	10049	−26	+15	26	242	19
	10049	−18	+14	20	436	10
	10047	−16	+21	21	12	1
	10047	−11	+20	18	194	6
	10050	−23	−13	30	12	7
	10048	−15	−12	23	12	1
	10048	−12	−12	22	36	10
	10048	− 9	−11	19	36	8

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count
Oct.		°	°	°		
	10051	+18	−21	32	48	4
	10051	+20	−17	30	12	2
	10045	+23	−12	30	85	9
	10045	+27	−11	32	97	1
	10043	+31	+19	33	267	26
	10053	+39	−17	45	48	3
	(10)	(143)	(+6)		1,573	112
16.710	10055	−29	− 7	32	6	1
MW-F	10049	−12	+15	15	170	9
	10049	− 6	+14	11	24	11
	10049	− 4	+15	10	388	1
	10048	− 2	−10	16	12	1
	10048	+ 2	−10	16	61	10
	10048	+ 6	−10	17	61	6
	10047	− 1	+22	15	24	10
	10047	+ 3	+21	15	170	1
	10045	+36	−12	40	24	12
	10045	+40	−11	42	97	2
	10043	+45	+20	46	194	15
	10043	+50	+18	51	12	1
	10053	+52	−16	57	12	1
	(7)	(130)	(+6)		1,255	81
17.642	10049	+ 1	+15	9	97	9
MW-F	10049	+ 7	+15	12	6	2
	10049	+ 9	+15	13	388	1
	10047	+13	+22	22	48	6
	10047	+17	+21	23	145	3
	10048	+14	−10	22	36	6
	10048	+19	−10	24	48	2
	10045	+48	−12	52	24	6
	10045	+51	−11	54	121	2
	10043	+57	+21	59	73	2
	10043	+57	+18	58	48	4
	10043	+60	+21	61	12	1
	10043	+61	+19	61	48	5
	10053	+65	−16	70	6	1
	(6)	(118)	(+6)		1,100	50
18.769	10049	+16	+15	18	48	5
NO-G	10049	+22	+14	23	339	4
	10048	+28	−10	32	12	2
	10048	+33	−10	38	24	2
	10047	+30	+20	32	121	4
	10045	+65	−11	67	194	3
	(4)	(103)	(+6)		738	20
19.690	10049	+27	+14	28	24	4
NO-VG	10049	+32	+13	33	388	1
	10050	+34	−13	39	24	1
	10047	+41	+19	43	97	1
	10045	+79	−11	80	145	1
	(4)	(91)	(+6)		678	8

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count
Oct.		°	°	°		
20.653	10058	−60	+10	60	48	10
NO-G	10057	+11	+11	13	48	8
	10057	+12	+ 9	12	24	2
	10056	+27	− 7	31	48	6
	10049	+40	+13	40	12	1
	10049	+45	+13	45	364	1
	10050	+46	−13	50	12	1
	10050	+51	−13	54	6	1
	10047	+53	+19	54	97	2
	(7)	(78)	(+5)		659	32
21.633	10059	−63	− 8	65	24	2
NO-G	10058	−47	+ 9	47	194	14
	10057	+23	+12	24	97	1
	10057	+25	+10	26	145	19
	10056	+39	− 6	42	145	12
	10060	+43	−12	46	12	1
	10049	+58	+13	59	388	1
	10047	+65	+20	66	73	2
	(7)	(65)	(+5)		1,078	53
22.644	10062	−80	+10	80	582	1
NO-G	10059	−51	− 7	53	97	8
	10058	−33	+ 9	33	194	11
	10061	− 7	+11	10	61	9
	10061	− 4	+11	7	24	1
	10057	+35	+11	36	170	1
	10057	+39	+10	39	170	12
	10056	+50	− 7	52	242	7
	10056	+55	− 5	55	145	4
	10060	+57	−13	60	36	4
	10049	+71	+12	71	582	1
	10047	+79	+20	79	48	1
	(9)	(52)	(+5)		2,351	60
23.673	10062	−66	+10	66	485	1
NO-G	10059	−38	− 7	41	36	4
	10059	−33	− 6	35	12	1
	10058	−23	+10	24	109	1
	10058	−18	+ 9	19	97	7
	10061	+ 9	+12	12	12	2
	10057	+48	+11	48	145	2
	10057	+51	+ 9	51	97	7
	10057	+60	+10	60	109	8
	10056	+63	− 7	64	242	1
	10056	+69	− 4	69	145	2
	10060	+70	−13	71	12	1
	10049	+85	+12	85	485	1
	(8)	(38)	(+5)		1,986	38
24.731	10064	−84	+ 7	84	145	1
NO-F	10062	−54	+10	54	12	2
	10062	−51	+11	52	388	1
	10063	−44	−22	51	24	2
	10059	−23	− 7	26	12	6

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Oct.		°	°	°		
	10059	−19	− 6	23	12	3
	10058	− 9	+11	11	121	2
	10058	− 4	+10	6	61	7
	10061	+26	+13	27	97	10
	10057	+61	+13	61	121	7
	10057	+70	+10	70	145	1
	10057	+75	+11	75	145	3
	10056	+78	− 7	79	242	1
	10056	+82	− 4	82	97	1
	(8)	(24)	(+5)		1,622	47
25.611 MW-G	10064	−71	+ 9	71	12	1
	10064	−70	+ 8	70	206	1
	10062	−42	+10	42	12	2
	10062	−41	+12	41	412	1
	10063	−35	−21	44	24	6
	10063	−33	−18	40	12	2
	10063	−31	−20	39	6	1
	10059	−10	− 7	16	24	2
	10059	− 7	− 6	13	36	4
	10058	+ 3	+11	7	121	2
	10058	+ 7	+10	9	61	15
	10061	+35	+13	37	12	6
	10061	+40	+14	41	36	3
	10057	+75	+15	75	97	1
	10057	+76	+14	76	12	1
	10057	+76	+12	76	12	2
	10057	+87	+10	87	145	4
	(7)	(12)	(+5)		1,240	54
26.676 NO-G	10064	−61	+ 7	61	12	2
	10064	−57	+ 7	57	194	1
	10062	−26	+12	28	339	1
	10063	−18	−20	31	12	4
	10059	+ 6	− 7	13	73	4
	10059	+10	− 6	16	73	9
	10058	+17	+11	18	97	1
	10058	+21	+10	21	24	7
	10061	+56	+14	56	48	1
	(6)	(358)	(+5)		872	30
27.655 NO-G	10067	−76	+ 9	76	12	2
	10070	−70	+ 1	70	6	1
	10064	−43	+ 7	43	194	1
	10068	−28	+ 6	28	12	4
	10062	−13	+12	15	291	2
	10063	− 5	−20	25	12	2
	10059	+19	− 7	23	97	9
	10059	+24	− 6	27	61	5
	10058	+30	+11	31	121	2
	10065	+50	+19	52	12	2
	10061	+70	+13	70	36	4
	(10)	(346)	(+5)		854	34

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Oct.		°	°	°		
28.619 MW-F	10067	−64	+10	64	48	2
	10064	−29	+ 8	29	145	2
	10068	−14	+ 6	16	12	1
	10062	− 1	+13	8	145	3
	10062	+ 1	+12	7	170	1
	10059	+31	− 7	33	97	6
	10059	+35	− 6	37	61	3
	10059	+38	− 5	40	48	2
	10058	+43	+11	44	85	2
	10065	+63	+20	63	24	1
	10065	+67	+17	67	12	1
	(7)	(333)	(+5)		847	24
29.615 MW-F	10071	−80	+26	80	97	5
	10071	−75	+25	76	194	7
	10071	−70	+26	71	145	2
	10067	−53	+11	54	16	4
	10067	−48	+10	48	12	1
	10064	−17	+ 8	18	48	5
	10064	−15	+ 8	17	24	1
	10068	− 1	+ 6	1	12	3
	10062	+10	+16	15	48	6
	10062	+12	+13	14	121	1
	10062	+13	+12	16	194	1
	10059	+44	− 6	46	48	6
	10059	+50	− 5	52	121	11
	10058	+56	+11	57	36	4
	10065	+77	+20	77	36	2
	10065	+80	+17	80	24	2
	(9)	(320)	(+5)		1,176	61
30.613 MW-G	10076	−80	+25	80	24	12
	10071	−65	+25	66	339	24
	10071	−56	+25	58	242	9
	10073	−53	− 8	55	24	3
	10073	−50	− 8	53	16	3
	10067	−41	+ 7	41	12	4
	10067	−36	+ 7	36	24	12
	10072	−22	−12	28	36	16
	10064	− 5	+ 8	5	12	8
	10064	− 3	+ 7	3	24	3
	10074	+11	+17	17	12	2
	10068	+12	+ 6	13	6	1
	10062	+23	+12	24	24	7
	10062	+26	+13	27	73	1
	10062	+27	+12	28	145	1
	10059	+58	− 7	59	12	6
	10059	+64	− 6	65	24	10
	10058	+75	+ 9	75	12	1
	(11)	(307)	(+5)		1,230	133
31.609 MW-F	10076	−63	+25	64	24	5
	10071	−52	+25	54	291	10
	10071	−52	+23	53	48	2

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude °	Heliographic: Latitude °	Heliographic: Distance from center of disk °	Area of spot or group	Spot count
Oct.						
	10071	−43	+25	44	218	6
	10073	−39	− 8	41	24	4
	10067	−22	+ 7	23	36	8
	10072	− 8	−12	19	36	7
	10078	− 2	+19	14	12	4
	10078	+ 2	+19	14	6	1
	10064	+ 9	+ 7	9	16	7
	10064	+13	+ 7	13	12	1
	10077	+24	− 8	27	6	1
	10062	+38	+13	39	48	1
	10062	+40	+12	40	194	1
	10059	+78	− 6	79	48	2
	(10)	(293)	(+4)		1,019	60

Mean daily area for 31 days = 1,905
Mean 10 g+s for 31 days = 167.4

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude °	Heliographic: Latitude °	Heliographic: Distance from center of disk °	Area of spot or group	Spot count
Nov.						
1.622	10076	−49	+24	52	48	1
MW-F	10076	−48	+22	51	97	2
	10071	−40	+26	44	194	2
	10071	−37	+25	42	97	7
	10071	−31	+25	37	48	5
	10071	−29	+25	35	194	1
	10067	− 9	+ 7	10	48	3
	10079	+ 7	− 6	13	36	3
	10078	+ 9	+20	18	97	7
	10083	+21	−18	30	24	3
	10064	+25	+ 7	26	24	4
	10077	+38	− 8	41	97	3
	10081	+49	−22	53	24	1
	10062	+54	+13	55	194	1
	(10)	(280)	(+4)		1,222	43
2.648	10087	−80	−11	80	485	5
NO-G	10087	−74	−10	74	291	1
	10086	−70	+23	70	12	1
	10076	−36	+22	40	48	2
	10071	−29	+26	35	12	1
	10071	−27	+25	33	242	1
	10071	−21	+23	28	24	2
	10071	−15	+25	26	218	2
	10085	− 9	+41	38	6	1
	10067	+ 3	+ 7	5	48	2
	10078	+22	+19	26	170	7
	10077	+52	− 8	53	48	3
	10081	+61	−21	65	12	1
	10062	+68	+13	68	194	1
	(10)	(266)	(+4)		1,810	30
3.744	10090	−75	+ 4	75	12	1
NO-G	10087	−67	−12	68	776	1
	10087	−62	−11	63	145	4
	10087	−60	−10	62	533	1
	10089	−50	+20	52	121	5
	10088	−23	+25	30	97	4
	10076	−22	+21	28	12	1
	10071	−15	+25	25	97	4
	10071	−13	+22	22	48	2
	10071	− 9	+24	22	48	2
	10071	− 2	+23	19	242	3
	10078	+36	+19	38	170	7
	10062	+81	+13	81	194	1
	(8)	(252)	(+4)		2,495	36
4.683	10091	−70	−12	71	73	1
NO-G	10090	−59	+ 3	59	12	1
	10087	−58	−10	60	97	1
	10087	−57	−12	59	679	4
	10087	−49	−10	51	97	4
	10087	−48	− 9	50	436	1
	10086	−40	+23	42	97	4
	10089	−36	+21	38	48	7
	10088	−16	+25	27	24	5
	10088	−10	+25	23	194	8
	10071	− 3	+26	23	97	3
	10071	+ 1	+25	22	24	1
	10071	+10	+24	23	24	1
	10071	+11	+24	24	218	1
	10067	+27	+ 9	28	24	4
	10078	+50	+18	52	242	12
	(9)	(240)	(+4)		2,386	58
5.660	10091	−58	−12	60	48	3
MW-G	10090	−45	+ 6	45	12	2
	10087	−44	−12	46	630	12
	10087	−37	− 9	40	121	15
	10087	−34	− 9	36	388	1
	10086	−28	+23	33	145	12
	10089	−22	+22	28	97	17
	10088	− 5	+29	27	24	7
	10088	− 1	+27	23	121	18
	10088	+ 5	+26	23	97	4
	10071	+ 9	+27	25	97	2
	10071	+13	+25	25	12	1
	10071	+17	+23	25	24	6
	10071	+23	+24	30	121	2
	10078	+60	+20	60	194	20
	10078	+69	+19	70	339	1
	(8)	(227)	(+4)		2,470	123
6.622	10091	−44	−13	46	36	2
MW-G	10092	−40	+15	42	48	9
	10090	−31	+ 3	31	12	4
	10087	−30	−12	33	388	6
	10087	−28	−11	32	218	15
	10087	−22	− 9	26	97	10
	10087	−20	− 8	23	339	1
	10086	−18	+25	27	24	6
	10086	−17	+24	27	97	8
	10086	−12	+22	22	121	11
	10089	− 9	+22	21	12	4
	10088	+ 7	+27	25	121	1

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
Nov.		°	°	°		
	10088	+13	+26	26	194	15
	10088	+17	+25	27	61	7
	10071	+22	+26	30	48	1
	10071	+37	+24	42	170	1
	10078	+74	+20	74	388	18
	10078	+84	+18	84	339	3
	(9)	(214)	(+4)		2,713	122
7.630	10091	−30	−13	33	48	1
NO-G	10092	−27	+15	31	97	2
	10092	−24	+15	26	97	4
	10090	−17	+ 3	17	12	3
	10087	−16	−12	22	485	7
	10087	−11	−11	19	364	9
	10087	− 7	− 9	15	412	1
	10086	− 3	+23	20	133	6
	10086	+ 1	+20	16	170	6
	10088	+21	+27	30	267	10
	10088	+25	+25	32	121	4
	10088	+30	+25	36	145	7
	10071	+35	+26	41	48	1
	10071	+51	+25	55	218	1
	(7)	(201)	(+4)		2,617	62
8.628	10094	−75	+10	75	630	7
NO-VG	10091	−17	−13	23	48	2
	10092	−15	+15	19	48	5
	10092	−10	+15	15	97	2
	10087	− 4	−12	17	194	11
	10087	0	−12	16	339	17
	10087	+ 4	−10	14	145	8
	10087	+ 7	− 9	14	364	1
	10086	+10	+23	22	48	4
	10086	+15	+20	22	267	15
	10088	+35	+27	41	388	6
	10088	+40	+25	44	97	5
	10088	+44	+25	48	291	10
	10071	+65	+25	67	194	1
	(7)	(188)	(+4)		3,150	94
9.641	10095	−70	− 5	70	24	1
NO-G	(*)	−68	− 8	68	12	4
	10094	−61	+ 9	61	533	9
	10094	−58	+ 9	58	12	1
	10093	−58	− 9	61	48	6
	10091	− 3	−13	15	24	1
	10092	− 2	+15	13	16	4
	10092	+ 4	+15	13	73	11
	10087	+ 9	−13	18	170	10
	10087	+12	−12	19	194	11
	10087	+17	−11	22	73	15
	10087	+20	− 9	23	291	1
	10086	+25	+19	30	108	5
	10086	+26	+23	32	97	12
	10086	+29	+20	32	388	13

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
Nov.		°	°	°		
	10088	+47	+27	50	388	4
	10088	+56	+25	59	388	15
	10071	+79	+25	79	194	1
	(10)	(174)	(+3)		3,033	124
10.660	10096	−80	+16	80	24	2
NO-F	10095	−58	− 5	60	24	1
	10094	−47	+10	47	412	10
	10093	−44	−10	45	24	8
	10091	+11	−14	20	24	1
	10092	+20	+14	22	73	6
	10087	+24	−12	28	194	8
	10087	+28	− 7	31	12	1
	10087	+32	− 9	33	194	2
	10086	+39	+19	41	97	5
	10086	+39	+23	42	194	1
	10086	+43	+21	44	242	3
	10086	+43	+19	45	170	6
	10088	+60	+27	62	436	2
	10088	+71	+24	71	339	2
	(9)	(161)	(+3)		2,459	58
11.671	10096	−68	+14	68	48	3
NO-F	10096	−63	+16	64	73	1
	10095	−44	− 4	45	12	2
	10094	−34	+ 9	34	388	17
	10093	−30	−10	33	36	3
	10093	−27	−10	31	12	1
	10097	+ 2	+26	25	12	2
	10097	+ 4	+24	22	6	1
	10091	+24	−15	30	6	1
	10092	+34	+14	35	73	3
	10087	+38	−13	41	121	10
	10087	+45	−11	47	48	2
	10087	+46	− 9	48	267	1
	10086	+50	+23	52	121	1
	10086	+51	+19	53	145	5
	10086	+57	+21	59	267	1
	10086	+57	+17	58	218	6
	10088	+73	+27	73	388	1
	10088	+85	+24	85	291	1
	(10)	(148)	(+3)		2,532	62
12.618	10099	−76	+11	76	242	1
MW-F	10096	−50	+17	52	61	1
	10095	−30	− 4	32	12	1
	10094	−21	+ 9	22	291	15
	10093	−16	−10	21	121	7
	10092	+47	+14	48	36	3
	10087	+52	−13	55	121	11
	10087	+58	−12	61	24	2
	10087	+60	−10	62	291	1
	10086	+63	+23	65	73	3
	10086	+63	+19	64	97	5
	10086	+69	+21	69	121	2

Date U.T.	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Latitude	Distance from center of disk	Area of spot or group	Spot count
Nov.		°	°	°		
	10086	+69	+17	69	194	6
	10088	+85	+26	85	339	1
	(9)	(135)	(+3)		2,023	59
13.626 MW-G	10102	–78	+20	78	24	1
	10105	–78	+17	78	48	2
	10099	–67	+14	67	145	16
	10099	–63	+11	63	267	1
	10098	–38	+12	39	97	15
	10098	–35	+11	36	73	1
	10096	–36	+18	37	36	2
	10095	–18	– 3	20	12	1
	10094	– 8	+10	12	291	30
	10093	– 7	– 7	13	24	4
	10093	– 4	– 8	12	97	16
	10093	– 1	– 9	12	145	4
	10092	+61	+14	62	12	1
	10087	+65	–13	67	61	12
	10087	+73	–12	74	242	2
	10086	+80	+20	80	388	14
	(11)	(122)	(+3)		1,962	122
14.644 NO-F	10102	–65	+18	66	48	1
	10105	–64	+16	65	24	5
	10099	–57	+13	58	24	9
	10099	–51	+10	51	485	1
	10098	–27	+11	28	145	7
	10098	–23	+ 9	24	339	8
	10096	–22	+18	25	24	6
	10095	– 6	– 3	9	24	4
	10101	– 1	– 8	12	24	6
	10094	+ 4	+ 9	7	145	7
	10094	+ 8	+10	11	194	10
	10104	+ 7	+16	15	73	5
	10093	+10	– 9	15	97	8
	10093	+12	– 9	16	97	4
	(10)	(108)	(+3)		1,743	81
15.644 NO-G	(*)	–65	+ 6	65	12	1
	10102	–53	+17	55	24	1
	10105	–52	+17	53	24	5
	10099	–43	+11	43	145	10
	10099	–39	+10	39	412	1
	10098	–13	+10	14	267	3
	10098	– 9	+ 8	10	339	4
	10101	+13	– 8	18	85	8
	10094	+19	+ 9	19	73	9
	10104	+19	+15	22	145	6
	10103	+20	– 3	21	242	5
	10093	+24	– 8	26	145	9
	(10)	(95)	(+3)		1,913	62
16.722 NO-F	10110	–75	+12	75	12	1
	10107	–53	+ 7	53	24	2
	10102	–40	+18	42	24	1
	10099	–28	+11	30	97	5
	10099	–26	+10	27	436	1
	10108	+ 1	+16	15	61	4
	10098	+ 1	+10	7	339	5
	10098	+ 6	+ 8	8	48	6
	10098	+ 8	+ 8	10	388	1
	10106	+23	+13	25	170	11
	10101	+29	– 9	31	24	3
	10104	+31	+16	33	12	1
	10104	+36	+12	38	12	1
	10094	+32	+ 9	32	12	1
	10103	+34	– 3	35	994	1
	10093	+35	– 9	37	24	2
	10093	+39	– 9	41	145	3
	(12)	(81)	(+3)		2,822	49
17.935 MW-F	10110	–65	+16	66	24	4
	10110	–59	+13	60	36	6
	10102	–26	+19	31	16	2
	10111	–23	+25	32	24	3
	10099	–10	+12	13	48	7
	10099	– 9	+11	12	436	1
	10108	+17	+17	22	121	9
	10098	+18	+11	20	218	8
	10098	+21	+10	22	48	2
	10098	+25	+ 9	26	291	4
	10106	+40	+13	41	242	9
	10101	+49	– 9	51	12	1
	10103	+50	– 3	51	1,018	4
	10093	+51	– 9	53	12	1
	10093	+58	– 9	60	48	1
	(10)	(65)	(+3)		2,594	62
18.649 NO-F	10115	–81	+14	81	194	1
	10116	–80	–22	80	194	1
	10110	–52	+16	54	6	1
	10110	–48	+12	50	24	5
	10113	–39	+20	42	85	4
	10112	–28	+ 8	29	97	8
	10114	–18	+ 4	18	12	4
	10099	– 2	+ 9	7	12	2
	10099	– 1	+12	10	61	15
	10099	0	+11	9	485	1
	10108	+27	+16	30	170	16
	10098	+27	+11	28	194	18
	10098	+31	+ 9	32	12	1
	10098	+33	+ 7	34	291	15
	10106	+45	+11	46	24	6
	10106	+52	+12	53	194	3
	10103	+61	– 3	61	1,164	5
	10093	+65	– 9	66	48	5
	(12)	(56)	(+2)		3,267	111
19.629 MW-G	10116	–76	–21	76	73	2
	10116	–68	–22	68	170	2
	10118	–73	+ 7	73	36	2
	10115	–70	+14	70	145	1
	10110	–33	+14	35	12	3
	10113	–27	+22	33	61	2

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
Nov.		°	°	°		
	10113	−21	+21	28	97	1
	10112	−13	+ 8	13	145	10
	10114	− 4	+ 5	5	16	9
	10099	+11	+12	15	48	9
	10099	+12	+11	16	436	1
	10108	+40	+17	42	145	15
	10098	+40	+11	41	61	12
	10098	+49	+ 9	50	291	8
	10106	+60	+11	61	24	7
	10106	+65	+13	66	194	1
	10101	+70	− 9	71	12	2
	10103	+75	− 3	75	970	6
	10117	+78	+21	78	12	1
	(14)	(43)	(+2)		2,948	94
20.672 NO-F	10119	−85	+17	85	582	1
	10116	−62	−22	65	48	2
	10116	−52	−23	56	242	4
	10115	−57	+13	58	145	1
	10118	−54	+ 6	55	48	1
	10113	−15	+22	24	48	4
	10113	−12	+18	20	24	4
	10113	− 9	+19	19	145	7
	10112	+ 1	+ 8	6	97	8
	10099	+25	+13	27	48	4
	10099	+26	+12	28	485	1
	10099	+26	+ 8	27	6	1
	10108	+51	+16	53	97	5
	10108	+55	+17	55	36	5
	10098	+53	+11	54	61	9
	10098	+60	+ 9	60	194	3
	10106	+77	+13	77	242	5
	(10)	(29)	(+2)		2,248	65
21.628 NO-F	10119	−72	+17	73	727	1
	10116	−51	−22	56	48	1
	10116	−39	−22	44	291	1
	10118	−46	+ 6	46	24	2
	10118	−42	+ 5	42	48	1
	10115	−44	+13	45	145	1
	10110	−11	+17	18	61	2
	10110	− 9	+13	14	97	5
	10113	− 3	+23	21	48	1
	10113	+ 5	+19	18	145	2
	10112	+13	+ 8	14	48	2
	10121	+20	−14	25	73	2
	10099	+39	+12	40	533	1
	10098	+74	+ 9	74	97	2
	(10)	(16)	(+2)		2,385	24
22.621 NO-F	10119	−63	+17	64	97	1
	10119	−60	+17	62	776	1
	10116	−40	−22	45	24	1
	10116	−24	−23	35	291	1
	10115	−32	+12	33	73	1
	10118	−30	+ 6	31	48	5
	10110	+ 2	+17	15	61	1
	10110	+ 5	+13	12	73	1
	10113	+10	+22	22	36	1
	10113	+12	+21	23	24	1
	10113	+19	+19	25	73	1
	10112	+28	+ 8	29	24	2
	10121	+32	−14	34	97	4
	10120	+42	+15	44	24	1
	10099	+51	+12	52	485	1
	(10)	(3)	(+2)		2,206	23
23.660 NO-F	10123	−78	+ 6	78	12	1
	10123	−73	+ 5	73	121	1
	10119	−50	+16	52	73	1
	10119	−47	+19	50	97	3
	10119	−44	+17	45	824	1
	10116	−26	−22	35	24	6
	10116	−12	−22	28	242	1
	10115	−20	+12	22	12	2
	10115	−18	+12	21	109	1
	10118	−17	+ 6	18	61	5
	10110	+15	+17	21	36	1
	10110	+19	+13	22	24	3
	10113	+31	+19	35	73	1
	10121	+46	−16	49	339	15
	10120	+55	+16	57	12	1
	10099	+65	+11	66	436	1
	(10)	(349)	(+2)		2,495	44
24.778 MW-F	10123	−62	+ 6	62	24	1
	10123	−60	+ 5	60	121	1
	10119	−47	+20	50	12	1
	10119	−34	+20	38	121	12
	10119	−29	+18	32	824	1
	10115	− 3	+14	12	109	2
	10118	− 3	+ 7	7	48	10
	10118	+ 1	+ 7	6	48	7
	10126	− 3	−10	12	109	8
	10116	+ 2	−21	23	194	1
	10125	+23	+ 7	24	24	4
	10110	+31	+16	34	24	5
	10124	+41	−13	43	12	3
	10113	+46	+19	48	48	1
	10121	+60	−17	63	242	8
	10121	+61	−15	63	24	8
	10121	+65	−15	67	315	1
	10099	+80	+11	80	436	1
	(12)	(335)	(+2)		2,735	75
25.625 NO-G	10127	−75	+11	75	170	2
	10123	−50	+ 6	50	12	1
	10123	−48	+ 5	48	97	1
	10119	−21	+18	27	97	1
	10119	−20	+21	28	121	6
	10119	−17	+18	23	727	1
	10116	0	−22	24	24	4
	10116	+14	−22	28	121	2

		Heliographic				
Date U.T.	Mount Wilson group No.	Difference in longitude	Latitude	Distance from center of disk	Area of spot or group	Spot count
Nov.		°	°	°		
	10118	+ 5	+ 6	6	12	3
	10118	+11	+ 6	13	24	2
	10115	+ 9	+13	14	97	1
	10126	+ 9	−11	16	242	15
	10125	+37	+ 7	38	24	7
	10113	+58	+20	60	48	1
	10121	+68	−17	70	291	1
	10121	+78	−16	78	485	1
	(10)	(324)	(+2)		2,592	49
26.630	10127	−62	+11	62	145	2
NO-G	(*)	−57	−20	60	16	2
	10123	−35	+ 5	35	97	1
	10128	−22	− 9	24	48	4
	10119	− 9	+17	17	48	1
	10119	− 9	+19	19	97	5
	10119	− 6	+17	17	727	3
	10126	+20	−10	23	170	3
	10126	+26	−12	29	145	8
	10118	+20	+ 5	20	12	5
	10118	+25	+ 6	26	24	3
	10115	+23	+13	26	73	1
	10116	+28	−23	37	121	2
	(9)	(310)	(+1)		1,723	40
27.638	10133	−87	+25	87	388	1
MW-VG	10132	−80	+ 9	80	73	2
	10132	−78	+11	78	97	2
	10130	−54	+25	58	36	6
	10127	−51	+11	52	6	2
	10127	−49	+10	50	73	6
	10123	−22	+ 5	22	73	2
	10131	−20	−11	23	16	6
	10129	−14	+19	22	16	10
	10128	− 8	− 9	13	24	7
	10119	+ 5	+17	17	36	1
	10119	+ 5	+21	20	121	20
	10119	+ 9	+19	19	727	1
	10126	+33	− 9	34	291	15
	10126	+38	−11	40	194	12
	10115	+35	+13	37	97	1
	10116	+41	−23	46	73	2
	(12)	(297)	(+1)		2,341	96
28.688	10135	−85	+22	85	145	1
NO-F	10133	−73	+25	73	485	2
	10132	−63	+ 9	63	121	6
	10130	−39	+23	43	48	1
	10127	−34	+11	35	145	2
	10123	− 8	+ 4	9	48	6
	10123	− 5	+ 4	7	73	1
	10131	− 7	−12	16	145	10
	10129	− 1	+20	18	24	2
	10128	+ 8	− 9	13	36	1
	10134	+11	−33	36	12	2
	10119	+19	+20	25	170	3
	10119	+23	+19	28	776	1
	10119	+24	+21	30	12	1
	10126	+48	−10	50	194	6
	10126	+48	−13	50	24	1
	10126	+51	−12	53	339	5
	10115	+48	+13	49	73	1
	10116	+55	−23	58	109	1
	(14)	(283)	(+1)		2,979	53
29.668	10137	−77	−12	77	242	1
NO-F	10135	−71	+22	71	218	2
	10133	−60	+23	62	145	1
	10133	−59	+24	61	291	1
	10130	−27	+23	34	16	2
	10127	−21	+12	24	6	1
	10127	−20	+11	22	73	1
	10131	+ 5	−13	14	48	3
	10131	+10	−10	15	73	2
	10123	+ 8	+ 4	10	73	1
	10129	+11	+18	20	24	2
	10128	+22	− 9	24	24	1
	10134	+26	−33	42	24	1
	10119	+31	+19	35	85	6
	10119	+38	+18	41	776	1
	10126	+60	−13	61	12	3
	10126	+60	−10	60	194	6
	10126	+68	−12	68	388	1
	10115	+62	+13	62	73	1
	10116	+68	−23	70	97	2
	(14)	(270)	(+1)		2,882	39
30.657	10137	−70	− 8	70	12	1
NO-G	10137	−63	−12	64	194	1
	10135	−58	+22	60	339	2
	10133	−49	+23	52	145	1
	10133	−47	+24	51	194	1
	10136	−40	−15	43	12	2
	10136	−37	−17	41	24	1
	10130	−16	+25	28	121	5
	10130	−11	+22	23	48	6
	10127	− 7	+11	13	73	3
	10131	+20	−12	23	48	3
	10131	+23	−10	25	24	3
	10131	+24	− 8	25	48	1
	10123	+20	+ 4	20	73	1
	10128	+36	− 9	37	24	1
	10134	+40	−33	51	24	1
	10119	+45	+18	48	24	1
	10119	+49	+19	52	727	1
	10126	+72	−10	73	194	1
	10126	+80	−12	80	388	1
	10115	+75	+15	75	97	1
	(13)	(257)	(+1)		2,833	38

Mean daily area for 30 days = 2,463
Mean 10 g+s for 30 days = 169.6